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**From:** Nassif, Julianne (DPH)  
**Sent:** Friday, January 13, 2012 1:35 PM  
**To:** Lawler, Michael (DPH)  
**Subject:** FW: Complimentary Online Tutorial - Troubleshooting HPLC Pumps and Autosamplers

fyi

-----Original Message-----

From: Separation Science e-Learning [<mailto:elearning.solutions@sepscience.com>]  
Sent: Friday, January 13, 2012 1:05 PM  
To: Nassif, Julianne (DPH)  
Subject: Complimentary Online Tutorial - Troubleshooting HPLC Pumps and Autosamplers

Web Version>> <[http://www.icontact-archive.com/RFzlwXJu3LaBLbsYimXwZjP\\_p0OF88OS?w=4](http://www.icontact-archive.com/RFzlwXJu3LaBLbsYimXwZjP_p0OF88OS?w=4)> Forward>>  
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## HPLC Troubleshooting & Preventive Maintenance

Separation Science and Sigma Aldrich have collaborated to offer a free-of-charge subscription to the second instalment of 'HPLC Troubleshooting & Preventive Maintenance' online tutorial, Troubleshooting HPLC Pumps and Autosamplers, by John Dolan and Tom Jupille.

## TROUBLESHOOTING HPLC PUMPS & AUTOSAMPLERS

This online tutorial is a simple-to-use slide-by-slide video presentation with instructional voiceover, together with a comprehensive handout supporting the learning experience.

CLICK HERE for your free access>>

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Separation Science presents Session 2 of the "HPLC Troubleshooting and Preventive Maintenance" course. This 60-minute online learning seminar covers HPLC pumps and autosamplers. This module is a genuine learning tool. All content from this online seminar is applicable to HPLC analysis and methods independent of vendor hardware.

What will you gain from the course?

If you are an analytical chemist or lab technician with six months' experience or more in HPLC, then this six-part series by chromatography experts John Dolan and Tom Jupille will provide you with the knowledge you need to effectively diagnose, fix and prevent the most common problems in HPLC.

What does it cover?

Session 2: "Pumps and Autosamplers" goes over the operation of pumping systems and autosamplers with an eye toward anticipating the most likely sources of problems. Specific topics and diagnostics include:

- \* solvent filtering and degassing
- \* check valve operation
- \* seal problems
- \* autosampler types and operation
- \* sample carryover
- \* injection valve blockage and leaks

CLICK HERE for your free access>>

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